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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,860	12/04/2008	Xiachuan Zhou	GAO-06-02	2768
G. Kenneth Smith Ph.D., J.D. 1645 Briarwood Circle Pathlem PA 18015			EXAMINER	
			FORMAN, BEITY J	
Bethlem, PA 18015			ART UNIT	PAPER NUMBER
			1634	
			MAIL DATE	DELIVERY MODE
			06/27/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		tion No.	Applicant(s)			
		860	ZHOU ET AL.			
		er	Art Unit			
	Betty Fo		1634			
The MAILING DATE of this commu Period for Reply	- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) file	Responsive to communication(s) filed on 15 May 2011.					
2a) ☐ This action is FINAL.	☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 03 September 2008 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	PTO-948)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

Art Unit: 1634

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I, Claims 1-6 in the reply filed on 18 May 2011 is acknowledged.

On page 2 of the response, Applicant canceled Claims 7-26.

Claims 1-6 are currently pending and under prosecution.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1-6 are indefinite in claim 1, line 8 for the recitation "said second" because it is unclear whether the recitation refers to the second conduit or second transport channel. It is suggested that the claim be amended to clarify.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Application/Control Number: 10/589,860

Art Unit: 1634

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Gong et al (2003/0138819, filed 24 October 2002).

Regarding Claim 1, Gong teaches a microfluidic device comprising a plurality of chambers (assay stations, 26), each having a first and second conduit (channels, 24/28). The device further comprises a first and second transport channel (22/30) providing a bypass channel at the first end in flow communication with the conduits and chambers (Fig. 1, 5 and Abstract).

Regarding Claim 2, Gong teaches the interior surfaces of the channels are coated with a hydrophobic film (¶ 87, 90-91).

Regarding Claim 3, Gong teaches the device further comprises a distribution channel (20, Fig. 1).

Regarding Claim 4, Gong teaches the transportation channels contain oil (isolation medium, 54, ¶ 108) and the chamber contain aqueous solutions (¶ 126).

Regarding Claim 5, Gong teaches the channels and chambers contain air and/or gas as a carrier for delivering reagents to the chambers (¶ 83).

Regarding Claim 6, Gong teaches the chambers further comprise beads (¶ 194).

Art Unit: 1634

Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Peters et al (DE 1980499, published 16 September 1999).

Regarding Claim 1, Peters teaches a microfluidic device comprising a plurality of chambers (3), each having a first and second conduit (feed canal, 5). The device further comprises a first and second transport channel (connection channels, 7/11) providing a bypass channel at the first end in flow communication with the conduits and chambers (Fig. 1 and Abstract).

Regarding Claim 3, Peters teaches the device further comprises a distribution channel (7, Fig. 1).

Conclusion

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betty Forman whose telephone number is (571)272-0741. The examiner can normally be reached on 6:00 TO 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Nguyen can be reached on (571) 272-0731. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/589,860

Art Unit: 1634

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Betty Forman Primary Examiner Art Unit 1634

/Betty Forman/ Primary Examiner, Art Unit 1634